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MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 2, 2016/2017

DCS5288 – INTERNET AND WEB PUBLISHING (All IT Groups)

8 MARCH 2017 9.00 a.m - 11.00 a.m (2 Hours)

INSTRUCTIONS TO STUDENT

- This question paper consists of 10 pages with 20 Multiple Choice Questions and 4 structured questions.
- 2. SECTION A: Answer ALL questions. Please shade your answers on the OMR sheet provided.
- 3. SECTION B: Answer ALL questions. Please write your answers in the answer booklet provided.

SECTION A: MULTIPLE CHOICE QUESTIONS (20 MARKS)

Answer ALL questions in this section. Shade your answers on the OMR sheet provided.

1.	The World Wide Web is referred to in short as the
	A. editor
	B. client
	C. web
	D. server
2.	By default, the port that is used by the HTTP protocol to establish a TCP connection is
	A. 80
	B. 88
	C. 8080
	D. 21
3.	The Intranet is defined as
	A. software that can respond to HTTP requests
	B. a global system of interconnected computer networks that use the protocol suite (TCP/IP) to link devices worldwide
	C. a network security system that monitors and controls the incoming and
	outgoing network traffic based on predetermined security rules
	D. an internet network that is local to an organization or business
4.	is a glass-based wire that transmits light and has significantly greater
	balldwidth and speed in comparison to metal wires.
	A. Coaxial Cable
	B. Fiber Optic Cable
	C. Twisted Pair Cable
	D. Single Line Cable
5.	When a table is created just by using the tag, what will be the result?
	A. A table with 100% width will be created.
	B. A table with a caption will be created.
	C. A table with double borders will be created.
	D. A table with no borders will be created.
6.	The number of levels of heading tag supported by HTML is
	A. one
	B. four
	C. six
	D. seven
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- 7. For the list shown below, which of the following is the most appropriate HTML code
 - 1. A
 - 2. B
 - 3. C
 - A. A B C
 - B. A B C
 - C. A li> B C
 - D. A B C
- 8. The <a> element allows us:
 - A. To insert images in a web page.
 - B. To display multimedia element in a web page.
 - C. To create forms in a web page.
 - D. To link to other URLs on the WWW.
- 9. Which CSS property configures the font typeface?
 - A. font-type
 - B. font-family
 - C. font-style
 - D. font-design
- 10. Given the following code segment, to change the text colour of "Degree" to green which of the following should be used?

```
<body>
   <div id="mmu">
      <h1>Diploma</h1>
      <h2>Degree</h2>
   </div>
  <h2>Short Courses</h2>
</body>
A. #mmu h2 {color:green}
B. h2 {color:green}
C. #mmu {color:green}
```

D. .mmu h2 {color:green}

- 11. Which of the following defines a CSS class selector called product-image?
 - A. product-image {}
 - B. #product-image {}
 - C. .product-image { }
 - D. .product-image []

- 12. CSS style rules can be written as:
 - A. inline
 - B. internal or embedded
 - C. external
 - D. All three of the above.
- 13. Which of the following is true about the alert() function in JavaScript?
 - A. The message will be displayed on the browser.
 - B. The alert() function makes the browser show a pop-up to the user.
 - C. The user can choose to click on the OK or Cancel button.
 - D. The user has to enter some values into the text area to proceed.
- 14. Given the following statement, what will be the value of hobby[3]?

```
var hobby = new Array("Baking", "Drawing", "Fishing", "Reading");
```

- A. Baking
- B. Drawing
- C. Fishing
- D. Reading
- 15. In JavaScript, the comparison operator used to check both value and data type is:
 - (3 equal signs)
 - B. == (2 equal signs)
 - C. =
 - D. !=
- 16. Which is the correct way to get the value from a textbox based on the following code? <input type="text" id="username" />

- A. document.form.username.value;
- B. document.getElement("username").value;
- C. document.getElementById("username").value;
- D. document.getElementByName("username");
- 17. Which of the following is false about PHP?
 - A. PHP, like JavaScript, is a dynamically typed language.
 - B. Usually used as a front end for the client side.
 - C. The syntax for loops, conditionals and assignments are identical to JavaScript.
 - D. A PHP file will usually have the extension .php.
- 18. Which of the following is false if a variable is created using the define() function?
 - A. It must be referenced with the \$ symbol.
 - B. It is defined as a constant.
 - C. It can be referenced without using the \$ symbol.
 - D. The value of the variable will not change.

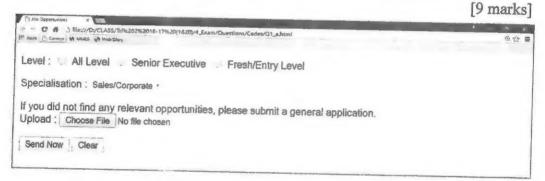
- 19. How can multiple values be passed to another page through the URL in PHP?
 - A. display.php?\$name="Joe",\$age="32"
 - B. display.php?name=Joe&age=32
 - C. display.php/name=Joe&&age=32
 - D. display.php?Joe, 32
- 20. Which of the following best checks to see if the session variable *logged* has been set with a value?
 - A. if(isset('logged')
 - B. if(\$_SESSION['logged']!= '')
 - C. if(isset(\$_SESSION['logged'])
 - D. if(isset(\$_GET['logged'])

SECTION B: STRUCTURED QUESTIONS (80 MARKS)

Answer ALL questions in this section. Write your answers on the answer booklet provided.

QUESTION 1 (20 MARKS)

- a. Write the HTML codes to generate the following webpage.
 - The webpage title is Job Opportunities.
 - The Specialisation are Sales/Corporate, Finance and IT Software.
 - For the file upload, only .pdf, .doc and .docx file extensions are accepted.



b. Write the HTML codes to generate the following table. The table width is 700px.

[11 marks]

Licence		Monthly		Yearly	
Туре	Employee Number	Subscription	Maintenance		
Individual	-	RM 45.00	RM 15.00		RM 70.00
Organisation	10	RM 120.00	RM 60.00	RM 390.00	RM 60.00
	50	RM 350.00		RM 500.00	

QUESTION 2 (20 MARKS)

a. Write the External CSS codes based on the following output and HTML codes given. [14 marks]

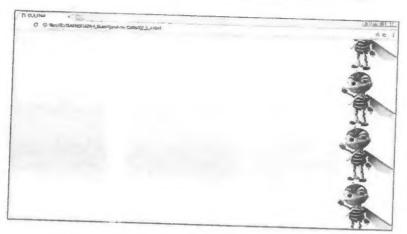


```
<div id="profile-wrap">
    <div id="profile-image">
       <img src="image/picture.png" />
       <h2>Tom Hanks</h2>
      <span class="small-text">Project Manager</span>
    </div>
   <div class="activity">
      <h4>Activity Level: 75%</h4>
      <span class="small-text">Last seen : 3 hours ago</span>
   </div>
   <div class="follow-btn">
     <a href="#">Follow</a>
  </div>
  <br />
</div>
```

Guides

- The profile-wrap box:
 - Located in the middle of the webpage and the width is 250px.
 - O The borders are solid, blue and 3px wide and the corners are rounded by
 - The content are center aligned and the padding for top and bottom sides are 10px while the right and left sides are 20px.
- Image in the profile-image box:
 - The height and width are 150px.
- Heading level 2 in the profile-image box:
 - o The font is Arial Black and the colour is #11B771.
- The small-text:
 - o The font is italics.
- Heading level 4 in the activity box:
 - o The font is bold and the colour is black.
 - O The size of the font is 1.2em and between each letter there is a 1.2em
- The hyperlink in the follow-bin box:
 - O There is no underline and the size of the font is 1em.
 - O The background colour is #1122BB and the font colour is white.
 - O The top and bottom padding is 0.5em whereas the right and left padding is
 - When the mouse cursor goes over the hyperlink, the text becomes underlined and the background colour changes to #3B3A3A.

- b. Write only the Internal CSS codes for the following scenarios.
 - The webpage body.
 - The background colour is yellow.
 - The contents will be bold.
 - The image is ebee.png which is located in the image folder.
 - The image is repeated vertically on the right side of the webpage.
 - The size of the image is 100px in height and width.



- ii. Create a custom font to be loaded on a webpage.
 - The font file is sansation_light.woff.
 - The new font name is myFirstFont.
 - This new font will be used in all <div> blocks.

[6 marks]

QUESTION 3 (20 MARKS)

- a. Write only the 2 function codes in JavaScript based on the descriptions and outputs on the next page.
 - When the "Get New Captcha" button is clicked, it will call function CaptchaGen().
 - In function CaptchaGen():
 - o The size of each captcha is 6 characters.
 - Set a variable string called *charset* which contains values:
 "ABCDEFGHIJKLMNOPQRTSUVWXYZabcdefghijklmnopqrstuvwxyz
 0123456789"
 - O Using a for loop:
 - Get a random number between 0 and the length of variable string charset.
 - Use this number to identify the selected character from the variable charset.
 - Join 6 characters together.
 - Display the 6 character captcha at the right location as stated in the HTML codes given below.
 - When the "Check" button is clicked, it will call function check_user().
 - In function check_user():
 - o Get the captcha value.
 - o Get the value entered by the user.
 - Compare both values. If they are the same, using an alert() function display "Valid User. Access granted". Otherwise using an alert() function display "Invalid User. Access denied".

[10 marks]

User Validation			
Get New Captcha pTqr37			
Key in the Captcha:	Check		
User Validation			
Get New Captcha pTqr37		JavaScript Alert fmoled User, secons denied.	×
Key in the Captcha: ppp345	Check		OK
Jser Validation			
Get New Captcha pTqr37		JavaScript Alen Valid User. Access gronned.	×
ey in the Captcha: pTqr37	Check	ge contraction of the contractio	OR

- b. Write only the JavaScript codes to get the monthly installment amount when purchasing a car.
 - The form form1 has textboxes named txtPrice, txtDownPayment, txtInterest, txtDuration and txtLoanInstallment.
 - When the Calculate button is clicked, the calculate() function will be called.
 - In function calculate():
 - All the information will be retrieved from form form1.
 - o Calculate the downpayment in terms of percentage. Example, if the car price is RM80000.00 and the down payment is RM4500.00, the downpayment percentage will be $\frac{4500.00}{80000.00}$ x 100 which is 5.63%.
 - Call function check_downpayment(...) and pass the downpayment percentage.
 - o If the downpayment is valid, calculate the monthly installment based on the following formula.

$$\frac{((carPrice - downPayment) + (\left((carPrice - downPayment)x \frac{interest}{100}\right)x \ duration)}{duration \ x \ 12}$$

- o Display the installment value in the txtLoanInstallment textbox.
- o If the downpayment is invalid, display an alert "Downpayment must be minimum of 10% of car price."

- In function check_downpayment(...):
 - o Check the status of the down payment.
 - o If the downpayment percentage is less than 10%, this means that the down payment status is not valid. Otherwise, it will be a valid down payment.
 - o Return the status.

[10 marks]

Car Price (RM): 75000 Down Payment (RM): 3500 Interest Rate (%): Loan Duration: 5 (year) Calculate Installment is RM per month

This page says: Downpayment must be minimum of 10% of car price. Prevent this page from creating additional dialogs. OK

Car Price (RM): 75000 Down Payment (RM): 35000 Interest Rate (%): Loan Duration: 5 (year) Calculate Installment is RM 763.33 per month

QUESTION 4 (20 MARKS)

This PHP and MySQL program lists the messages uploaded by lecturers in a college. Students could view the list and may give feedback if they wish to do so by clicking the Feedback hyperlink. The program is based on a forum database which has two tables named message and feedback as shown below.

[For this question, assume that the database connection has already been done.]

Table: message

message_id (PK)	message_date	message author	message content
1	2016-11-14	Usha	Can we have replacement class next week?
2	2016-11-21	Nurasma	I have uploaded the Online Quiz.
3	2016-11-27	James	Your quiz cover topics 1 to 3.

Table: feedback

feedback id (PK)	message id (FK)	message author	message content
1	1	Ali	OK Miss
2	1	Larry	Sure. I will be there,
3	3	Vincent	Sir, got MCQ questions?

a. Based on the details given above, write the PHP and HTML codes to produce the output shown below which is the view.php page. The Feedback hyperlink will pass the chosen message_id through the URL to the give_feedback.php page.

Date	Author	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Feedbacks	Give Feedback
2016-11-14	Usha	Can we have replacement class next week?	Ali OK Miss Larry Sure. I will be there.	Feedback
2016-11-21	Nurasma		37 6 11 1	Feedback
2016-11-27	James	Your quiz cover topics 1 to 3.	Vincent Sir. got MCQ questions?	

[12 marks]

b. Assume that there is a form that uses the *post* method in the *give_feedback.php* page and there are 2 textboxes named as *feedback_author* and *feedback_content*. Write the necessary PHP and HTML codes so that students could give their feedbacks based on the selected message. Once the process is completed, redirect the user to the *view.php* page.

page.	
Message From : Nurasma	
Message Date : 2016-11-21	
Message Content: I have uploaded the Online Quiz.	
Name:	
Feedback:	
Send Feedback	4

[8 marks]

End of Page.